

m/023/016

Tom,

The following are replacement pages for the **HE Davis - Levan Chicken Creek** Large Mine NOI. The new changes are made in green so that they can be distinguished from the red changes. Let me know if there is anything else we need to do.

Thanks,

Tony

RECEIVED
MAR 08 2004
DIV. OF OIL, GAS & MINING

Minimizing Sediment and Erosion

Berms will be constructed at the edges of the disturbed areas to control any runoff water. The berms will prevent runoff from the disturbed areas from flowing into the drainage system, thus helping to avoid silting. These berms are intended to contain any and all stormwater that falls onto the disturbed area to within the boundary of the disturbance. The berms will also prevent run-on. The lower pad may have some runoff so 2 (two) small sediment basins will be constructed. The basins will contain 135% of a ten year storm event. Stormwater should not leave the site.

Access Roads into the mines will be graded so that water will flow back into the hillside. The road will have a borrow ditch along the hillside that will convey water to catch basins. The catch basins will be located in low spots along the length of the road and will act as sediment traps. The catch basins will be piped under the road to a small rip-rap basin that will act as an additional trap. The downhill side of the road will have a berm to prevent trucks from going over the hill and to retain water.

All sediment controls for the West mine will be in place by May 15, 2004. All Sediment controls will be inspected by the Gypsum Superintendent on a quarterly basis to ensure that they are in good condition and working properly. They will also be checked after heavy rainstorms to make sure that they are sized and designed appropriately. Records of inspections will kept for a period of two years.

Deleterious Material Storage and Handling

One diesel tanks will be kept on site. The maximum size of the tank will be 12,000 gallons but this may vary from season to season (sometimes being smaller). The average daily inventory will likely be about 10,000 gallons of fuel. The tanks will be kept in a secondary metal containment structure ~~bermed area that is lined with plastic~~ and will contain 110% of the capacity of any tank placed in it. The tank will be placed in an area that should the secondary containment ~~berm~~ be breached any spilled fuel will not enter the stream or drainage channels. A SPCC plan will be developed for this site.

There will also be lube oil stored in 55 gallon drums. The drums will be placed over drip pans when in use. When the drums are empty they will be hauled off site and disposed of properly.

Any small spills of fuel or lube oils will be collected and haul to the Geneva Rock Point of the Mountain facility where the contaminated soil will be burned in the asphalt hot plant. Any large spills will be reported to the Division of Environmental Response and Remediation (DERR) and clean-up efforts will follow their guidelines.

Phone # for DERR 801-536-4100

Emergencies 801-536-4123

Soil Salvage

Any topsoil removal will be done with a trackhoe. All the soil and any plant matter will be stockpiled together in an area that will be undisturbed by mining activities. A berm will be built around the base of the stockpile to prevent erosion. The berm will also be situated so that storm water will not erode the pile.

Soil removed from roadways will be stored on the shoulder of the road. This will be done to control erosion and act as a safety barrier for vehicles.

Blasting Protocol

Maximum limits of blasting

<u>Hole size:</u>	<u>4"</u>
<u>Hole spacing:</u>	<u>7' on center</u>
<u>Pattern:</u>	<u>Chevron</u>
<u>Hole depth:</u>	<u>40'</u>
<u>Number of holes:</u>	<u>70</u>
<u>Load:</u>	<u>2 – 50lbs bags of Prell</u>
<u>Ignited with primer cord with millisecond delays back to front</u>	
<u>Some small shots may use ½ stick TNT for ignition</u>	

1. Signs will be placed east (up canyon) and west (down canyon) of the mine site notifying the public when blasting is to take place in the area.
2. When blasting is to take place all traffic will be stopped and held until the "all clear" is given.
3. The mine area will also be cleared of all people and checked to make sure that no one is in the mine site.
4. When the blast is to take place a warning signal will be sounded.
5. Blasting will take place.
6. The area will be checked for any unsafe conditions.
7. When the blast has cleared an "all clear" signal will be sounded and traffic will be allowed to resume in the canyon.

All safety precautions will be observed while drilling, loading and wiring the holes. Blasting will also be engineered to ensure controlled blasts that are not "oversized".

Monitoring

Water

The Town of Levan has a water system located at the bottom of the canyon, including springs, a collection and distribution system. HE Davis will work with the town to install flow meters on the springs that are closest to the mining operations. The Flow Meter readings will be recorded daily so that any variation can be detected. These records will be available at the city maintenance office.

Shock Waves

Whenever a blast is conducted at this operation a seismograph will be placed near the closest spring to monitor the effects of the blast. When blasting is conducted in the West pit an additional seismograph will be placed in town at a residence close to the canyon. This will help determine the effects of the blast. All results will be included in the annual report sent to the Div. of Oil Gas & Mining.

This page is a reference page used to track documents internally for the Division of Oil, Gas and Mining

Mine Permit Number M0230016 Mine Name Levan Gypsum
Operator Geneva Rock Date March 8, 2004
TO _____ FROM _____

CONFIDENTIAL BOND CLOSURE LARGE MAPS EXPANDABLE
 MULTIPUL DOCUMENT TRACKING SHEET NEW APPROVED NOI
 AMENDMENT OTHER _____

Description YEAR-Record Number

NOI Incoming Outgoing Internal Superceded

Replacement Pages NOI

NOI Incoming Outgoing Internal Superceded

NOI Incoming Outgoing Internal Superceded

NOI Incoming Outgoing Internal Superceded

TEXT/ 8 1/2 X 11 MAP PAGES 11 X 17 MAPS LARGE MAP

COMMENTS: _____

CC: _____